

Abstract

The invention relates to mixtures for producing transparent plastics, comprising a) a prepolymer, produced from the compounds of formulae (I) and (II), wherein R^1 independently represents hydrogen or a methyl group, R^2 independently represents a linear or branched, aliphatic or cycloaliphatic group or a substituted or unsubstituted aromatic or heteroaromatic group and m and n independently represent an integer greater or equal 0, with $m + 1 > 0$, and compounds of formula (III), alkyldithiols or polythiols, preferably $HS-R^3-SH$ (III), wherein R^3 is equal or different from R^2 and can have the meaning indicated in R^2 , and b) at least one radically polymerizable monomer (A) having at least two methacrylate groups and c) aromatic vinyl compounds, such as styrene and d) optionally a radically polymerizable monomer having at least two terminal olefinic groups that have different reactivity, and/or e) optionally at least one monomer (B) from the group of methacrylates, preferably 2-hydroxyethylmethacrylate.